



| Library   | Sequence          | Incidence |
|-----------|-------------------|-----------|
| Ph.D.-12  | HPIKQYWWRPSI----- | 22/26     |
| Ph.D.-12  | ----PIWWKHSGGPIL- | 1/26      |
| Ph.D.-12  | ----YWWRDAPVSQGR  | 1/26      |
| Ph.D.-12  | SYPTDKWWIKPG----- | 1/26      |
| Ph.D.-7   | ----VQWWRPT-----  | 7/15      |
| Ph.D.-7   | ----NWWRPLP-----  | 1/15      |
| Ph.D.-7   | ----GKWWVFD-----  | 1/15      |
| Ph.D.-7   | -VPTKPWW-----     | 1/15      |
| Ph.D.-C7C | ----PWWKTSK-----  | 6/15      |
| Ph.D.-C7C | ----PWWKASS-----  | 1/15      |
| Ph.D.-C7C | ----TPTWWRT-----  | 1/15      |
| Ph.D.-C7C | ----APTWKS-----   | 1/15      |
| Ph.D.-C7C | ----WWTSAWSR---   | 1/15      |
| Ph.D.-C7C | ---SARWWQP-----   | 1/15      |

FIG.1

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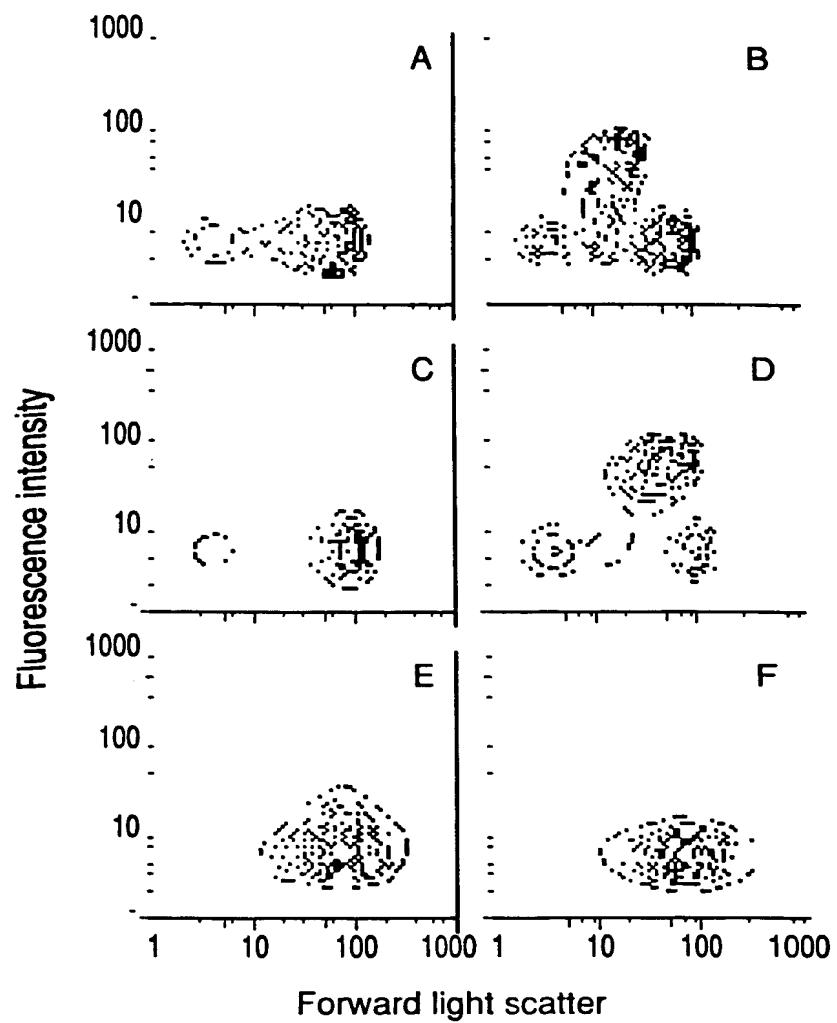


FIG.2

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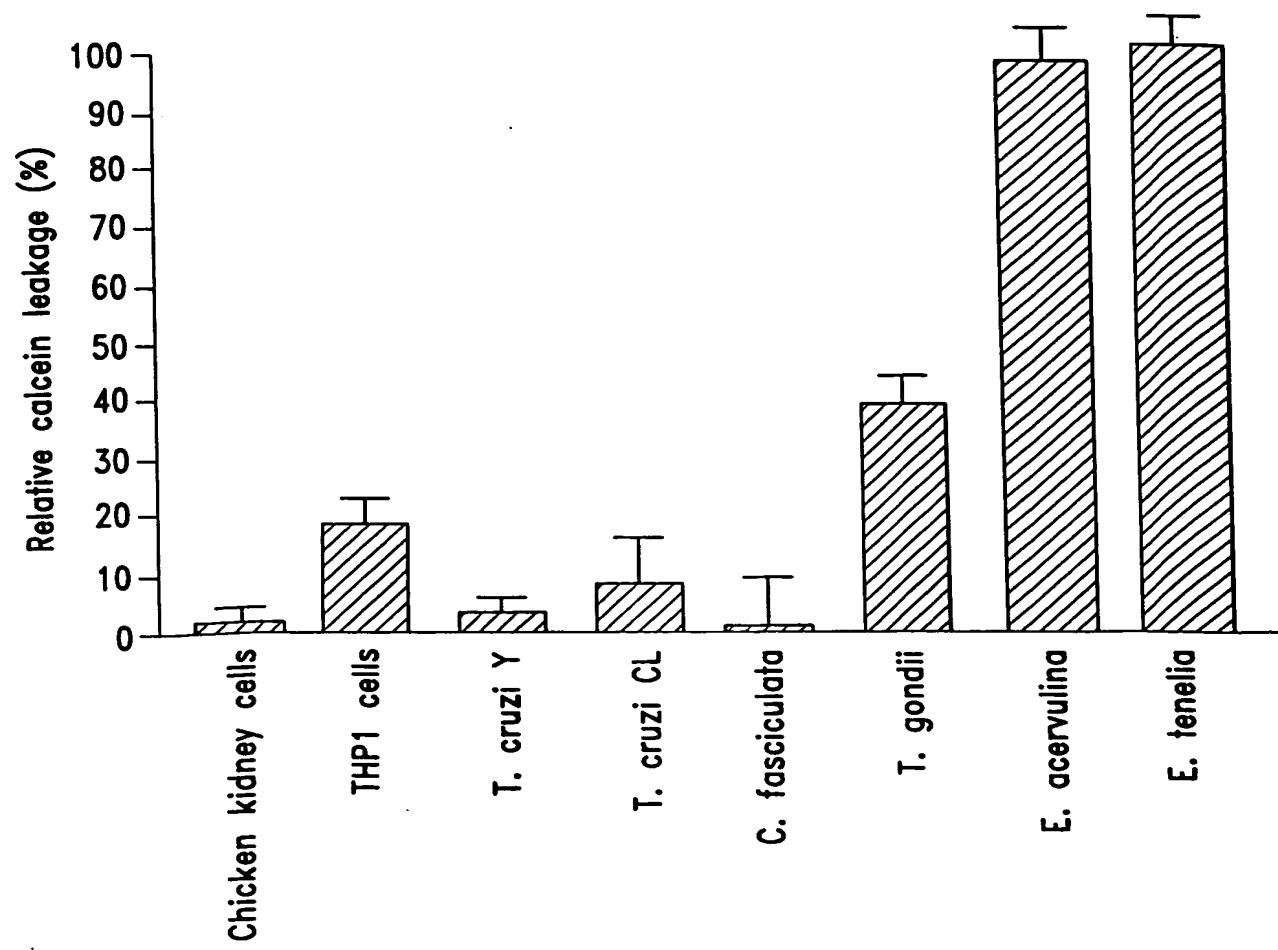


FIG. 3A

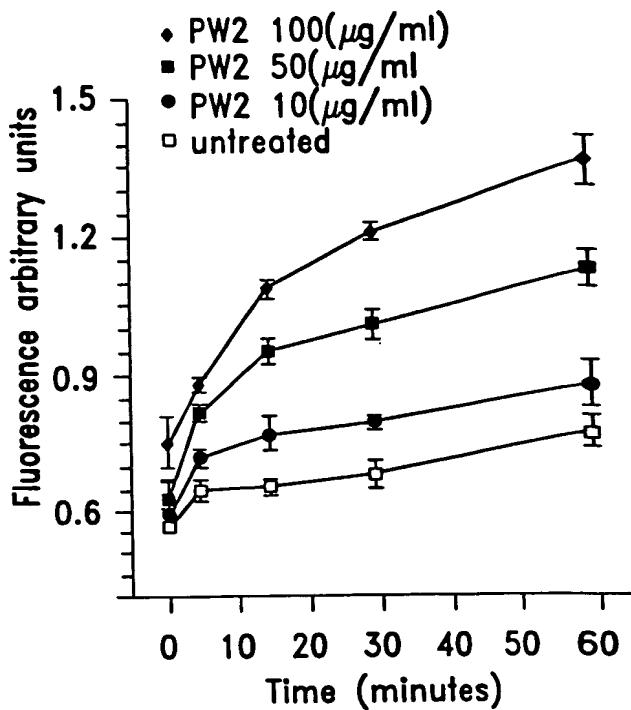


FIG. 3B

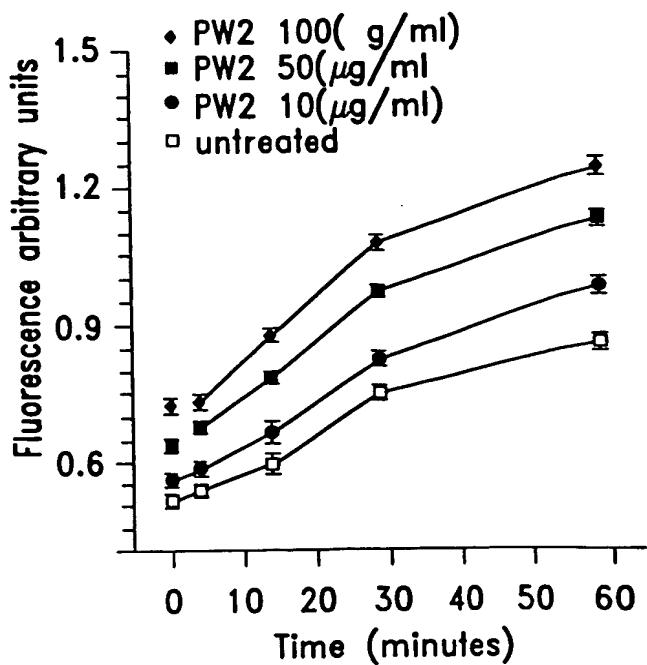


FIG. 3C



FIG. 4A



FIG. 4B



FIG. 4C

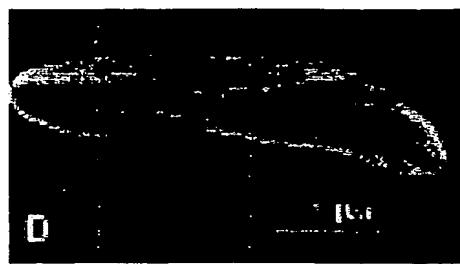


FIG. 4D

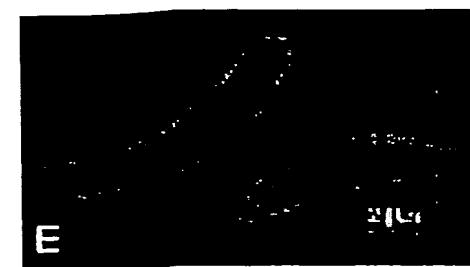


FIG. 4E

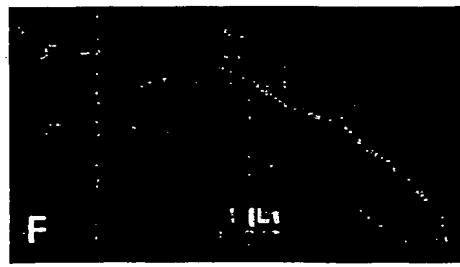


FIG. 4F



FIG. 4G



FIG. 4H

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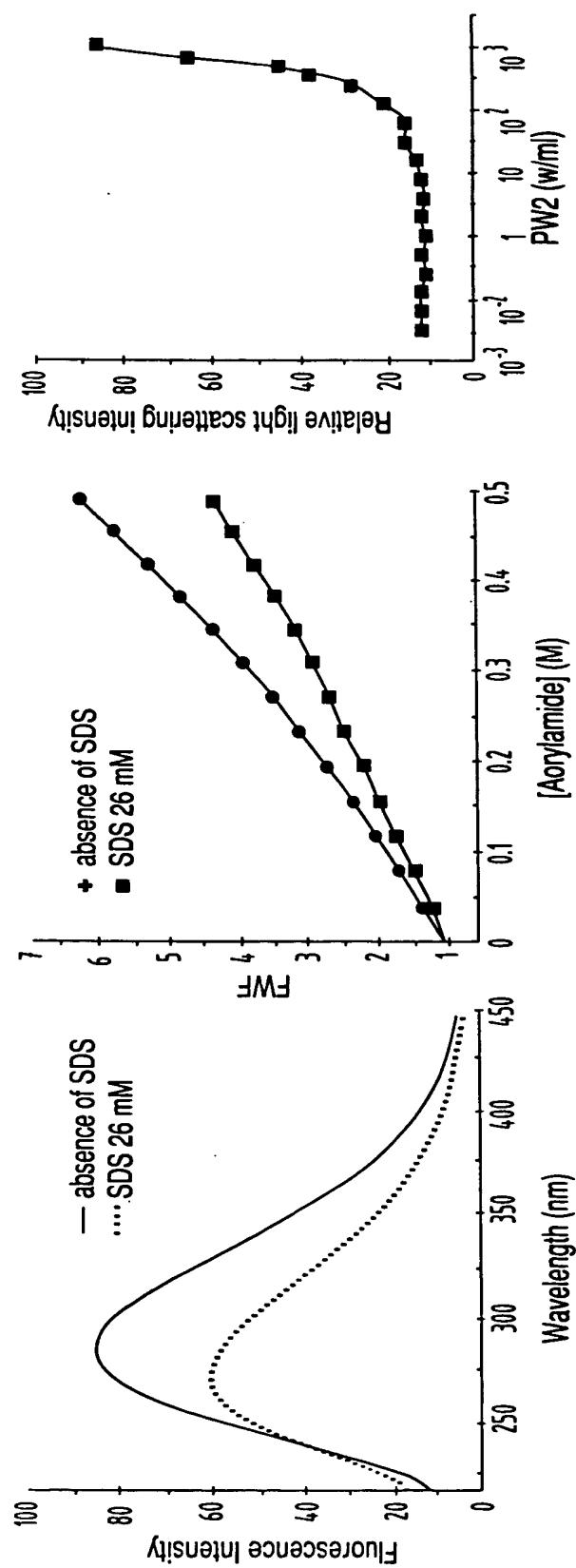


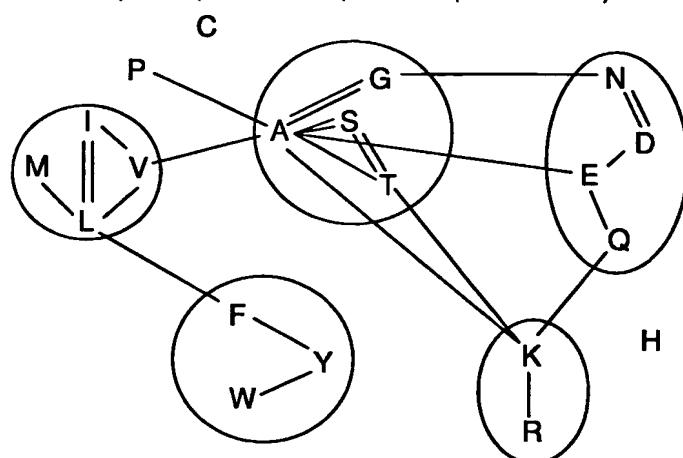
FIG.5A

FIG.5B

FIG.5C



Suggested Amino Acid Substitutions  
solvent exposed ( $SEA^2 > 30 \text{ A}^2$ ) / interior ( $SEA^2 < 10 \text{ A}^2$ )



Amino acids connected by a solid line can be substituted with 95% confidence  
(D. Bordo and P. Argus, J. Mol. Biol. 217(1991)721-729)

<sup>2</sup>SEA=solvent exposed area

Figure 6